

DATA SIGNAL LINE DRIVING CIRCUIT PIX(4, 1) PIX (4, 2) PIXEL PIX (4, 3) PIXEL PIX(3, 1) PIX (3, 2) PIX (3, 3) PIXEL PIXEL PIXEL SL3 SL2PIX(2, 1) PIX(2, 3) PIX (2, 2) PIXEL PIXEL PIXEL S L 1 PIX(1, 1) PIX(1, 2) PIX(1, 3) PIXEL PIXEL PIXEL DAT2 GL2 GL3 GL 1 SCKSSPSCANNING SIGNAL LINE GSP $\stackrel{<}{\sim}_2$ 1 (21a $\stackrel{\sim}{\sim}$ 21e) MODULATION-DRIVING PROCESSING SECITON GCK CONTROL CIRCUIT DAL S TAD

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COM

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PIXEL

POWER SUPPLY

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VSH

VSL

23

SL4

FIG. 3

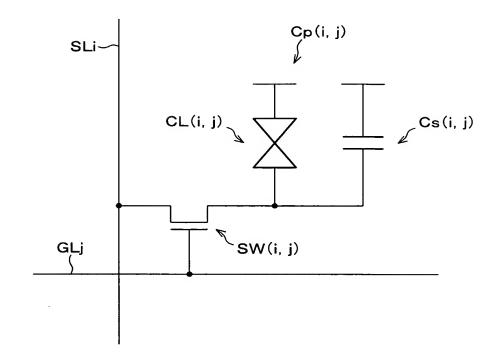


FIG. 4

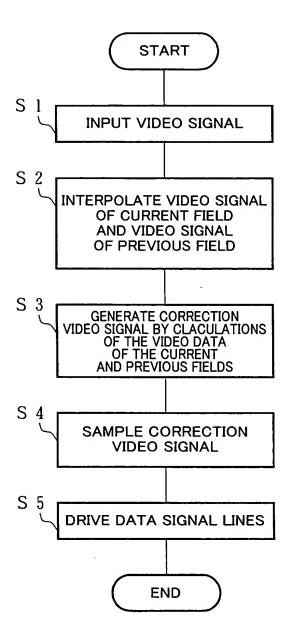


FIG. 5

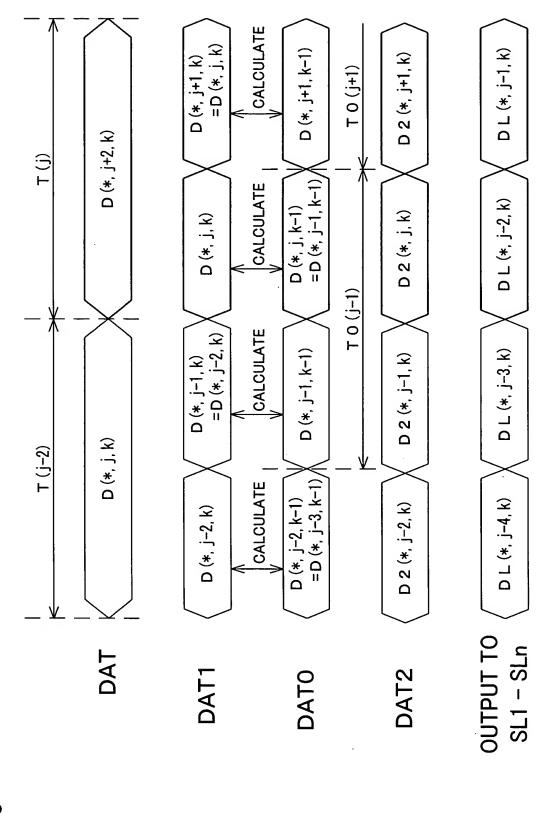
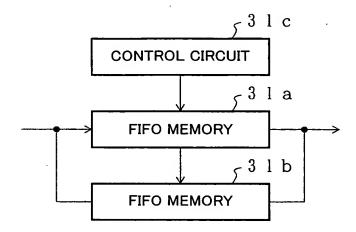
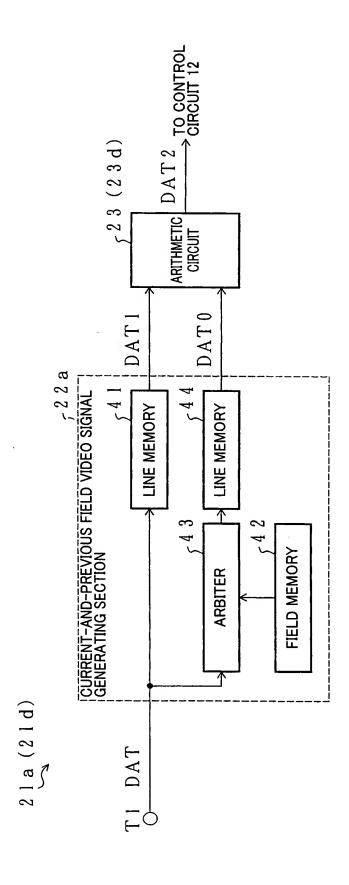
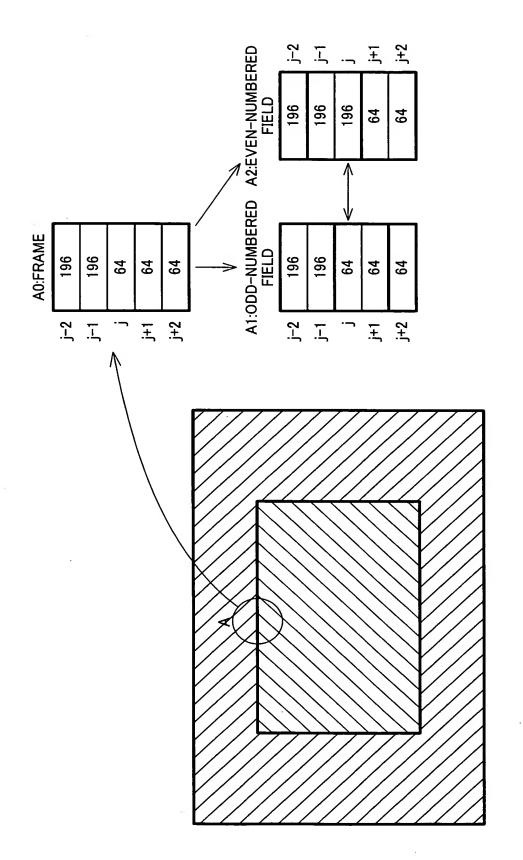


FIG. 6







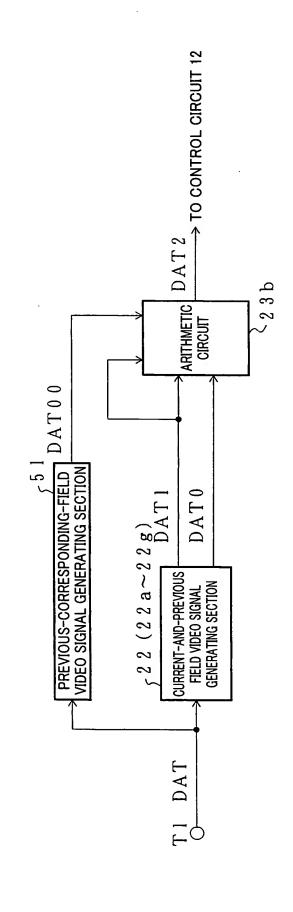


FIG. 10

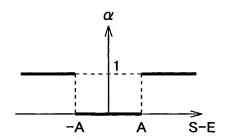
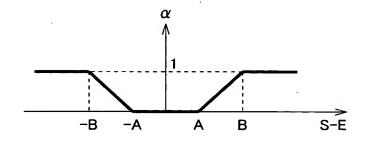


FIG. 11



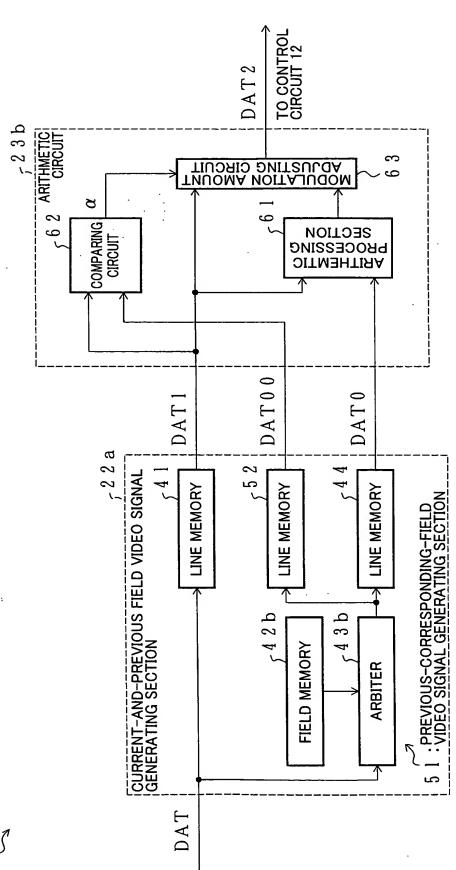
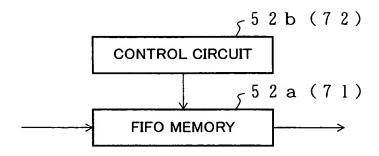
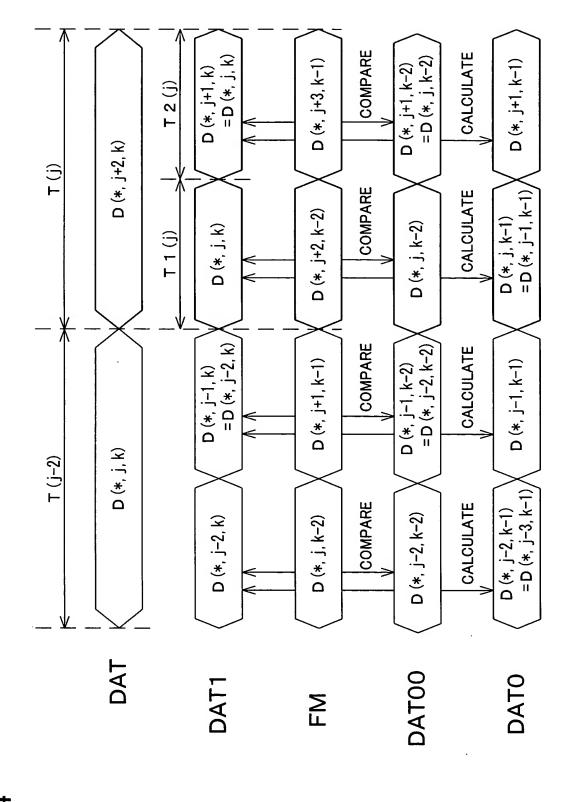
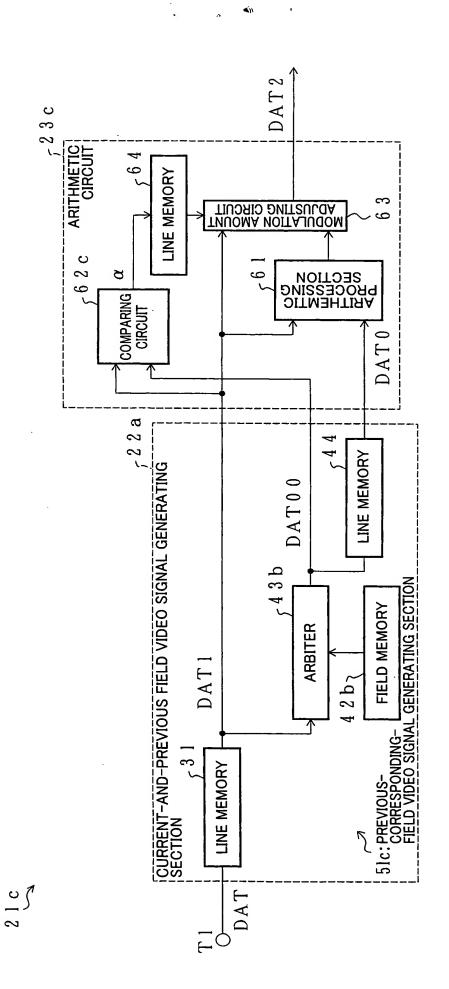


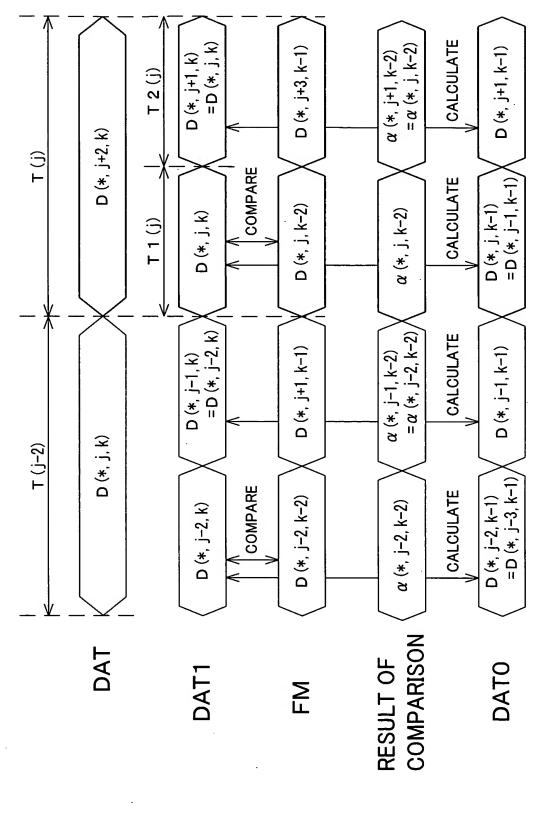
FIG. 13





4)14



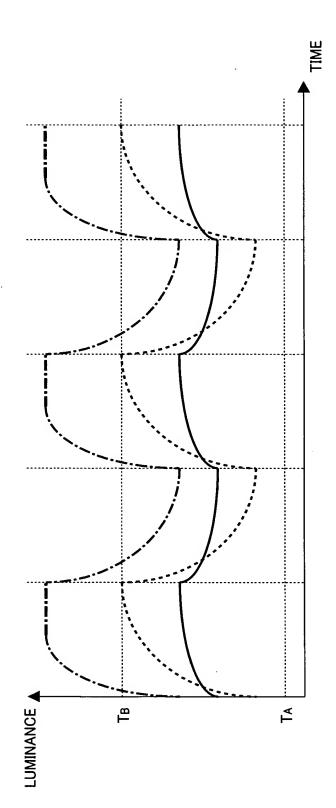


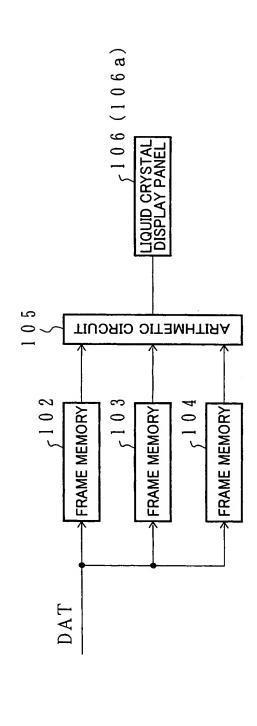
€()

CALCULATE α (*, j+1, k-2) = α (*, j, k-2) D (*, j+1, K) =D (*, j, K) D (*, j+1, k-1) D (*, j+3, k-1) D (*, j+2, k) T 2 (j) (<u>;</u>) COMPARE D(*, j, k-1)= D(*, j-1, k-1)CALCULATE D (*, j, k-2) α (*, j, k-2) D (*, j, k) T 1 (j) $\alpha (*, j-1, k-2) = \alpha (*, j-2, k-2)$ CALCULATE D (*, j-1, k-1) D(*, j-2, k-1)= D(*, j-3, k-1) CALCULATE α (*, j-2, k-2) COMPARISON RESULT OF DAT0

√ii)

ij





\wedge		
(N-1) th LINE	(N-1) th LINE	(N-1) th LINE (N-1) th LINE
		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
(N-1) th LINE	(N-1) th LINE	IE (N-2) th LINE
		(N-2) th LINE
INTERLACE VIDEO SIGNAL	DATA SAMPLING BY DATA SIGNAL LINE DRIVING CIRCUIT	OUTPUT OF DATA SIGNAL LINE DRIVING CIRCUIT

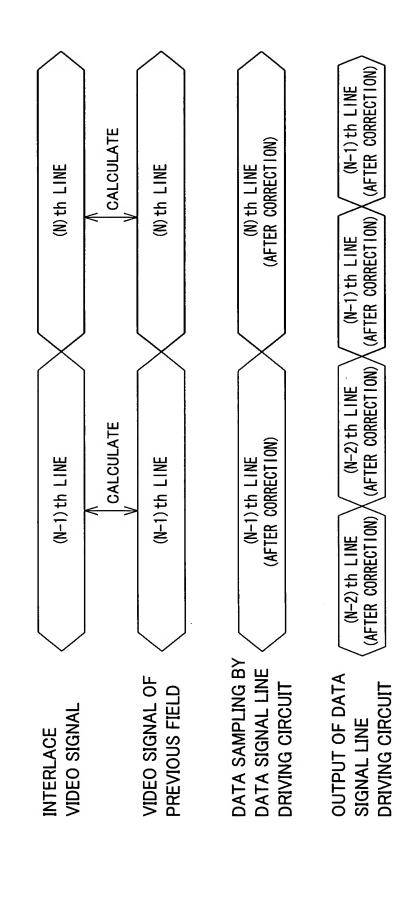
D L (*, j−1, k)

D L (*, j-2, k)

D L (*, j-3, k)

D L (*, j-4, k)

OUTPUT TO SL1 – SLn



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FIG. 22

ODD-NUMBERED FIELD

EVEN-NUMBERED FIELD

1st LINE OF A FRAME
2nd LINE OF A FRAME
3rd LINE OF A FRAME
4th LINE OF A FRAME
5th LINE OF A FRAME
6th LINE OF A FRAME

1st LINE OF THE FIELD
2nd LINE OF THE FIELD
3rd LINE OF THE FIELD

1st LINE OF THE FIELD
2nd LINE OF THE FIELD
3rd LINE OF THE FIELD

FIG. 23

ODD-NUMBERED FIELD

EVEN-NUMBERED FIELD

1st LINE OF A FRAME
2nd LINE OF A FRAME
3rd LINE OF A FRAME
4th LINE OF A FRAME
5th LINE OF A FRAME
6th LINE OF A FRAME

1st LINE OF THE FIELD

1st LINE OF THE FIELD

2nd LINE OF THE FIELD

2nd LINE OF THE FIELD

3rd LINE OF THE FIELD

3rd LINE OF THE FIELD

DUMMY DATA

1st LINE OF THE FIELD

1st LINE OF THE FIELD

2nd LINE OF THE FIELD

2nd LINE OF THE FIELD

3rd LINE OF THE FIELD

3rd LINE OF THE FIELD

EVEN-NUMBERED FIELD	DUMMY DATA	1st LINE OF THE FIELD	1st LINE OF THE FIELD	2nd LINE OF THE FIELD	2nd LINE OF THE FIELD	3rd LINE OF THE FIELD	3rd LINE OF THE FIELD
			(PAIRING)				
ODD∸NUMBERED FIELD	1st LINE OF THE FIELD	1st LINE OF THE FIELD	2nd LINE OF THE FIELD	2nd LINE OF THE FIELD	3rd LINE OF THE FIELD	3rd LINE OF THE FIELD	
	1st LINE OF A FRAME	2nd LINE OF A FRAME	3rd LINE OF A FRAME	4th LINE OF A FRAME	5th LINE OF A FRAME	6th LINE OF A FRAME	